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FILM
IBITOR-PATENT
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HIGH PERFORMANCE VpCI® PACKAGING

Eco-Corr® Biodegradable VpCI® Film, Patented



PRODUCT DESCRIPTION

Eco-Corr is the first and only biodegradable corrosion inhibiting film. Eco-Corr contains Cortec's proprietary VpCI technology and provides excellent contact, barrier, and vapor-phase corrosion protection for ferrous and non-ferrous metals. Various formulations containing up to 40% biobased content are available and can be designed to fit required properties ranging from highly elastic to semi-rigid structures.

Eco-Corr is compostable. When placed in a typical commercial composting environment,* Eco-Corr films will fully disintegrate within 2-3 months. The exact time for films to biodegrade is dependent upon the conditions and activity of the disposal environment (temperature, soil quality, activity of microorganisms). Eco-Corr films are shelf stable and will not break down prematurely until disposed of in a proper composting environment.

Eco-Corr is patented under US patents 6,028,160 and 6,156,929.

* This product is intended to be composted in a commercial composting facility operated in accordance with best management practices. These do not exist in many communities. Check locally to see if such a facility exists in your community and if they will accept this product. Not suitable for backyard composting.

APPLICATIONS

Metal parts packaged in Eco-Corr receive continuous protection against salt, excessive humidity, condensation, moisture, aggressive industrial atmosphere, and dissimilar metal corrosion. The Vapor phase Corrosion Inhibitors vaporize and then condense on all metal surfaces in the enclosed package. VpCI reaches every area of your part, protecting its exterior as well as hard to reach interior surfaces. You get complete product protection during storage as well as during domestic and overseas shipments, virtually eliminating any rust claims.

Once the film is no longer needed, Eco-Corr can be composted and will degrade into carbon dioxide and water.

FEATURES

- The first and only biodegradable, compostable packaging film that provides contact, barrier, and vapor corrosion inhibition
- Provides multimetal corrosion inhibitor protection
- Meets NACE TM0208-2008 standard for corrosion protection
- Meets German TL-8135-002 standards for corrosion protection.
- Extremely elastic
- Complete replacement for non-degradable and inferior blend films



MECHANICAL PROPERTIES

Property		Test Method	Units	Eco-Corr (40% biobased content)	Eco-Corr (0% biobased content)	VpCI-126
Caliper		ASTM D6988	mil	2.00	2.00	2.00
Breaking Factor	MD	ASTM D882-02	lbs/in	11.77	10.40	18.88
	TD			9.32	10.81	18.25
Tensile Strength at Break	MD	ASTM D882-02	psi	5774.65	4728.20	3184.35
	TD			4451.90	4699.10	3109.60
Elongation at Break	MD	ASTM D882-02	%	300.21	759.38	770.37
	TD			340.68	795.89	833.65
Yield Strength	MD	ASTM D882-02	psi	2321.62	991.44	793.85
	CD			2285.99	1093.16	1425.18
Tear Strength	MD	ASTM D1922-06a	mN	156.96	3719.95	15852.96
	CD			470.88	4959.94	20279.24
Dart Drop Impact Resistance		ASTM D1709-04, Test Method A	grams	573.30	>1300	753.28

Typical mechanical properties represent average laboratory values and are intended as guides only, not as specifications. Film properties are typical of blown film extruded at a blowup ratio of 2.5:1, but are dependent upon operating conditions.

PACKAGING

Eco-Corr is available in standard length 36" (91.4cm) and 48" (122 cm) rolls as well as a wide variety of custom sizes and forms. Custom products include single wound sheeting, double wound sheeting, U-sheets, M-sheets, center folds, gusset tubes, and converted bags made from these types of film and perforated, or bag-on-a-roll products.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

SHELF LIFE

For shipping and storage applications, Eco-Corr is a great alternative to conventional polyethylene films. Eco-Corr has a shelf life of up to two years, when sealed in original packaging.

Once removed and put to use, Eco-Corr will remain effective with regard to mechanical strength until film is placed in contact with material containing microorganisms and moisture such as certain types of waste, soil, and compost. Under these conditions, disintegration and biodegradation will occur.

LIMITED WARRANTY

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Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

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